

Panasonic

Compact Disc Changer SL-PD347

Operating Instructions



Before connecting, operating or adjusting this product, please read these instructions completely.

GN

COMPACT
disc
DIGITAL AUDIO

RQT1959-L

Thank you for purchasing this product.
For optimum performance and safety, please read
these instructions carefully.

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CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PER-
FORMANCE OF PROCEDURES OTHER THAN THOSE
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS
RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOUR-
SELF. REFER SERVICING TO QUALIFIED PERSONNEL.

**DANGER-Invisible
laser radiation when
open.
AVOID DIRECT EX-
POSURE TO BEAM.**

(Inside of product)

Suggestions for Safety

■ Use a standard AC wall outlet

1. **Use from an AC power source of high voltage, such as that used for an air conditioner, is very dangerous.**
A fire might be caused by such a connection.
2. **A DC power source cannot be used.**
Be sure to check the power source carefully, especially on a ship or other place where DC is used.

■ Grasp the plug when disconnecting the power supply cord

1. **Wet hands are dangerous.**
A dangerous electric shock may result if the plug is touched by wet hands.
2. **Never place heavy items on top of the power supply cord, nor force it to bend sharply.**

■ Place the unit where it will be well ventilated

Place this unit at least 10 cm (4") away from wall surfaces, etc.

■ Avoid places such as the following:

In direct sunlight or in other places where the temperature is high.

In places where there is excessive vibration or humidity.

Such conditions might damage the cabinet and/or other components and thereby shorten the unit's service life.

■ Be sure to place the unit on a flat, level surface

If the surface is inclined, a malfunction may result.

■ Never attempt to repair nor reconstruct this unit

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidentally touched.

■ Take particular care if children are present

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles such as coins, needles, screwdrivers, etc. are inserted through the ventilation holes, etc. of this unit.

■ If water is spilled on the unit

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.

■ Avoid spray-type insecticides

Insecticides might cause cracks or "cloudiness" in the cabinet and plastic parts of this unit. The gas used in such sprays might, moreover, be ignited suddenly.

■ Never use alcohol or paint thinner

These and similar chemicals should never be used, because they might cause flaking or cloudiness of the cabinet finish.

■ Disconnect the power supply cord if the unit will not be used for a long time

If the unit is left for a long time with the power ON, this not only will shorten its useful operation life, but also may cause other trouble.

■ If trouble occurs

If, during operation, the sound is interrupted or indicators no longer illuminate, or if an abnormal odour or smoke is detected, immediately disconnect the power cord plug, and contact with your dealer or an Authorized Service Center.

Notes of Placement

■ This unit is a precision instrument. Be sure to place it on a flat surface.

■ Avoid places such as the following:

- Near any equipment or device that generates strong magnetism
- On any heat-generating equipment or device, or in any place where the temperature is high (35°C or higher)
- Extremely cold place (5°C or below)
- Near a tuner or TV (It may cause noise in the broadcast, or disturbance of the TV picture.)

■ When carrying or storing the unit, handle it with care so it is not subjected to any strong bumps.

Always remove the disc before storing the unit for any period of time.

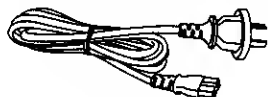
■ To avoid problems due to vibration

- Do not place a book or similar object under this unit.
- Do not route the connection cables (of this or other units) across the operation panel, across the top, or under the unit.

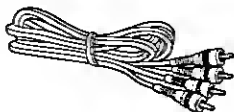
Preparations

Supplied accessories

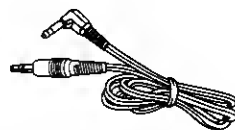
Check the packing carton for these accessories.



AC power supply cord 1 pc.



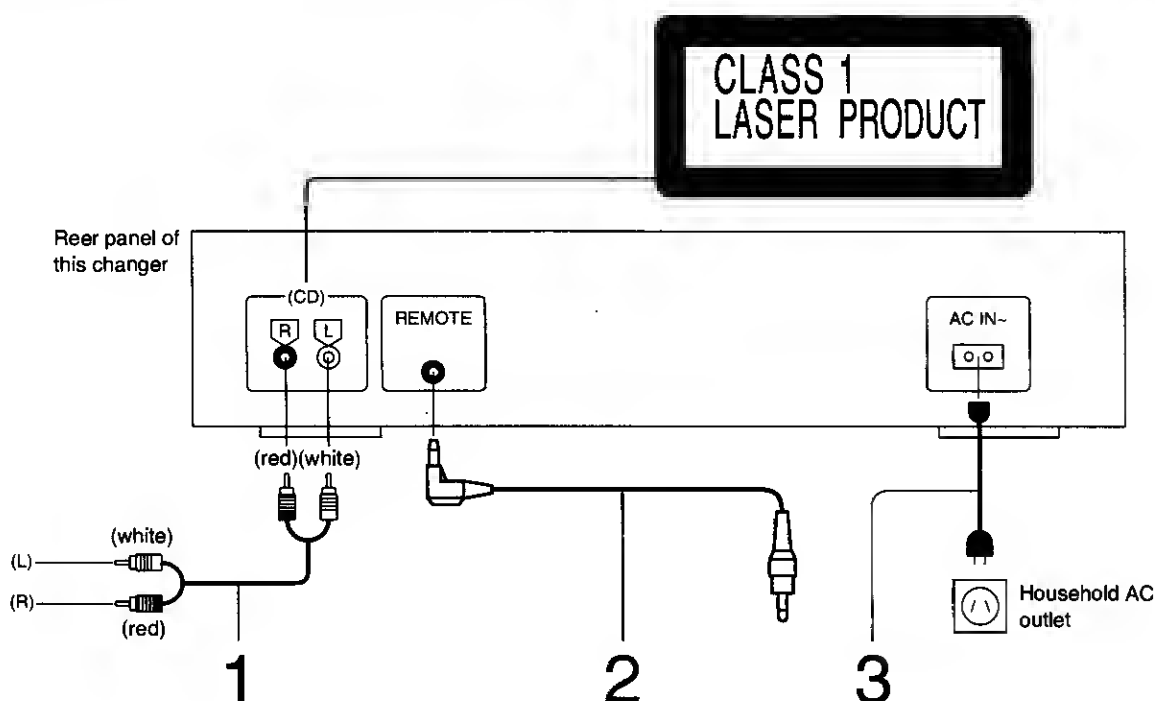
Stereo connection cable 1 pc.



Remote control cable 1 pc.

Connections

Before connecting the changer to your audio system, be sure that the power of the changer and all other system components are turned to **STANDBY**.



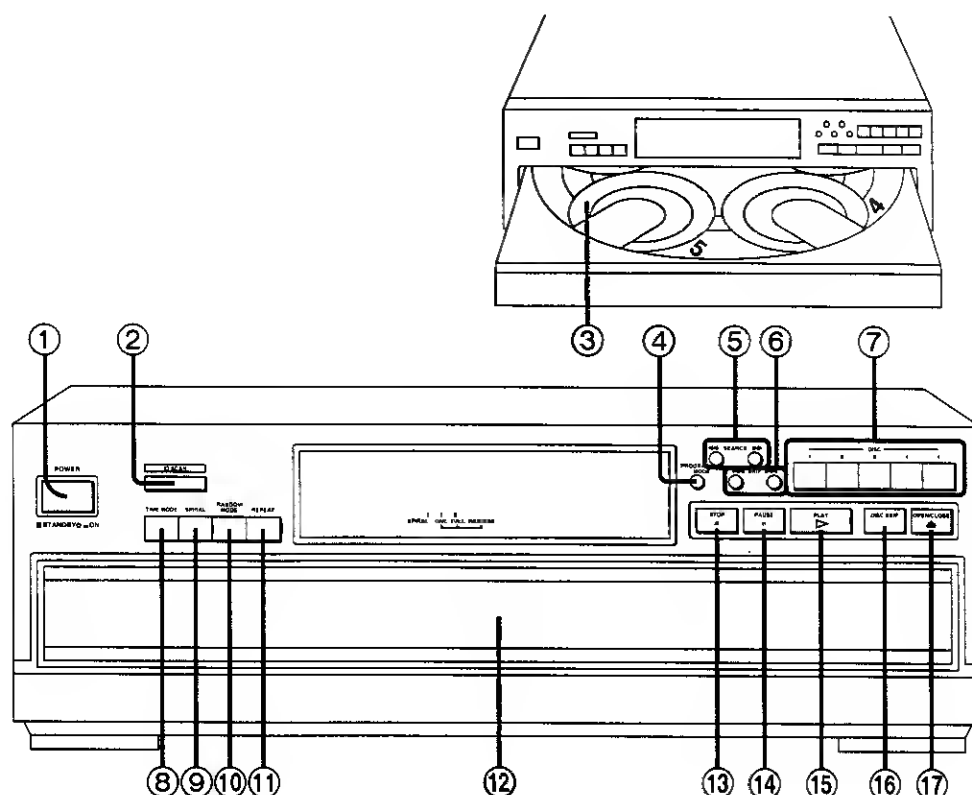
1 Connect the stereo connection cable (included) to CD terminal of Panasonic compact audio system.

2 To operate with the remote control, connect the remote control cable (included) to the REMOTE terminal of Panasonic compact audio system.

3 Connect the power supply cord (Included) to the household AC outlet or to AC OUTLET of Panasonic component.

The operations such as play, stop, skip etc. can be operated by remote control included with Panasonic compact audio system. For details, refer to the operating instructions of the system to be used.

Front Panel Controls and Functions



Control section

① Power "STANDBY /ON" switch (POWER STANDBY ON)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② ID scan button (ID SCAN)

Press to activate the ID (identify) scan function. (See page 18.)

③ Disc trays (1-5)

You can load up to five discs, one disc per one tray. (See page 7.)

④ Program mode button (PROGRAM MODE)

The mode changes as follows each time the button is pressed. (See pages 11-14.)

Sequential → Program → Delete

⑤ Search buttons (◀◀ SEARCH ▶▶)

Press to move forward or backward through the tracks on the disc. (See page 19.)

⑥ Skip buttons (I◀◀ SKIP ▶▶I)

Use to skip to the beginning of the track. (See page 20.)

⑦ Disc buttons (DISC 1-5)

Use to select desired disc. (See pages 10, 11 and 13.)

⑧ Time mode select button (TIME MODE)

Use to select the desired time mode. Each time you press the button, the display information will change as follows.

1. Track number and its elapsed play time of the current track.
2. Total remaining time on the disc.

3. Track number and remaining time of the current track.

4. Total elapsed play time on the disc. (See page 21.)

⑨ Spiral button (SPIRAL)

Press to play the first tracks on all the loaded discs in sequence, followed by the second tracks on all the discs, end so on. (See page 17.)

⑩ Random mode button (RANDOM MODE)

The mode changes as follows each time the button is pressed. (See pages 15-16.)

Sequential → One disc random → Full random

⑪ Repeat button (REPEAT)

Press to repeat tracks. (See page 19.)

⑫ Loading drawer

You can load and unload discs when this drawer is open.

⑬ Stop button (■ STOP) (See page 9.)

⑭ Pause button (|| PAUSE) (See page 9.)

⑮ Play button (▶ PLAY) (See pages 7 and 8.)

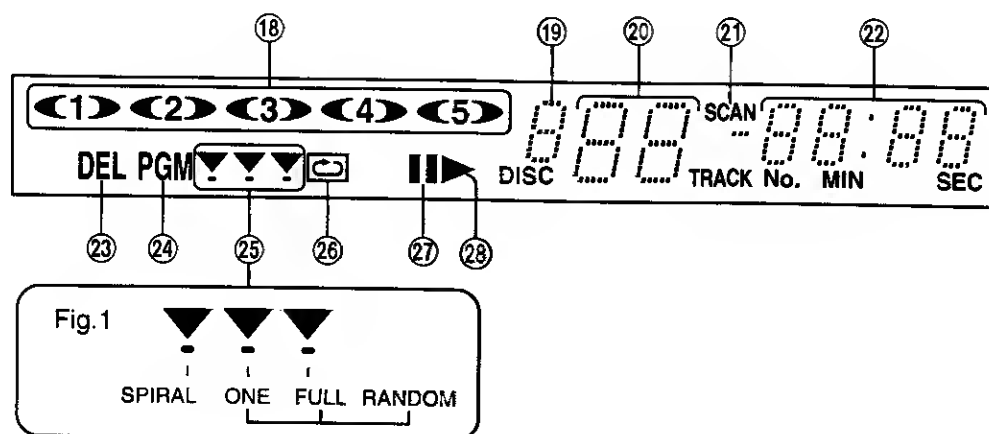
⑯ Disc skip button (DISC SKIP)

Use to rotate the disc tray. (See pages 8 and 20.)




⑰ Loading drawer open/close button (≡ OPEN/CLOSE)

Front Panel Controls and Functions

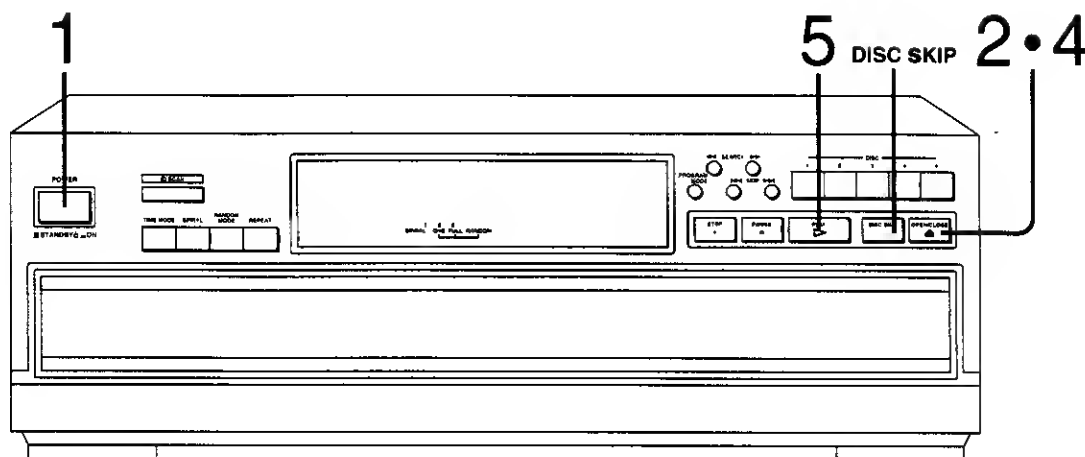
(continued)



Display section

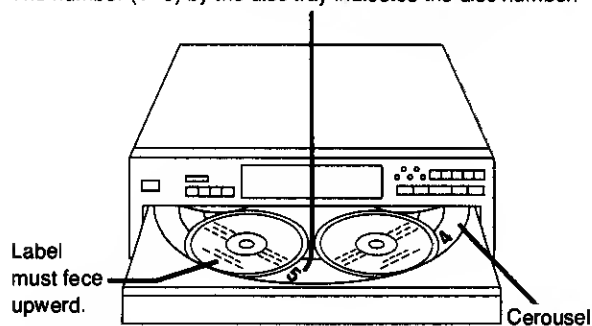
- ⑱ **Disc indicators (<1> ~ <5>)**
The indicator corresponding to the playing disc flashes.
In the program play mode, programmed disc indicators will illuminate. In the delete play mode, disc indicators to be deleted will go out.
- ⑲ **Disc number display**
Shows the number (1-5) of disc.
- ⑳ **Track number display**
Shows the number (up to 99) of track.
- ㉑ **ID scan indicator (SCAN)**
Lights in the ID scan mode.
- ㉒ **Time/program sequence display**
Shows the elapsed playing time of the track in play.
Also shows the program sequence in the program play mode, and the sequence you entered in the delete play mode.
- ㉓ **Delete play indicator (DEL)**
Lights in the delete play mode.
- ㉔ **Program play indicator (PGM)**
Lights in the program play mode.
- ㉕ **Play mode indicators (▼▼▼) (Fig. 1)**
Each indicator points to the following play modes:
SPIRAL: Spiral play
ONE: One disc random play
FULL: Full random play
- ㉖ **Repeat indicator ()**
Lights when the repeat function is activated.
- ㉗ **Pause indicator ()**
Lights in the pause mode.
- ㉘ **Play indicator ()**
Lights in the play mode.

Basic Operating Procedure



- 1 Press **POWER** to switch on the power.
- 2 Press **OPEN/CLOSE** to open the loading drawer.
- 3 Load the disc(s) on the disc tray(s).
Do not load 8 cm (3") and 12 cm (5") discs on the same disc tray.

The number (1-5) by the disc tray indicates the disc number.



After loading discs on the two disc trays at the front position, press **DISC SKIP** to move the carousel. Different two disc trays will be at the front position each time **DISC SKIP** is pressed.

Note:

Do not touch the carousel nor the loading drawer while it is moving.
Do not turn the carousel forcibly by hand because it may fail to operate normally.

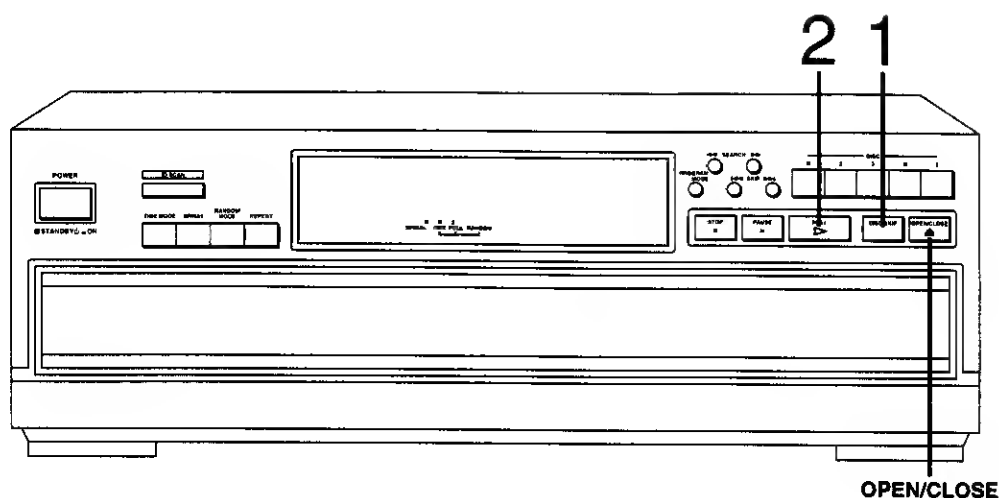
- 4 Press **OPEN/CLOSE** again to close the loading drawer.
• You can skip this step by pressing **PLAY**.
The loading drawer will be closed automatically then play will start.
■ Do not attempt to close the drawer by hand. Be sure to press **OPEN/CLOSE**.
- 5 Press **PLAY**.

CAUTION:

Do not move this changer with a compact disc inside the unit. If a disc comes off the disc tray, it might be scratched or the changer might become incapable of playing. Refer to page 22 before moving the unit.

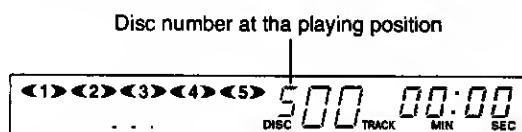
Sequential Play

Sequential play involves playing all the five discs on the five-disc tray in sequence beginning with the first track on the disc at the playing position.

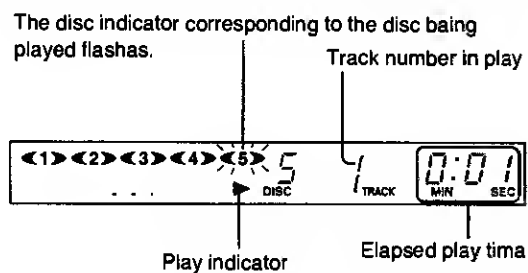


Before beginning, follow steps 1–4 of “Basic Operating Procedure” on page 7.

- 1 **Press DISC SKIP to select the desired disc.**
Pressing DISC SKIP will move the carousel by one position.



- 2 **Press PLAY to start.**
The play indicator will illuminate and sequential play will start.

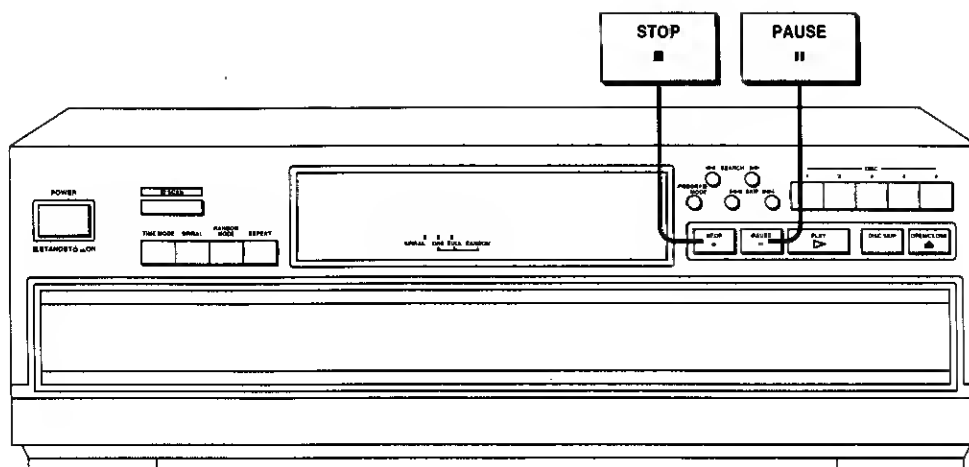


The changer plays all the tracks on all the discs in order and stops automatically when the last track on the last disc finishes playing.
The first disc will be at the playing position.

■ To exchange discs during play

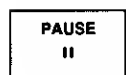
- ① Press OPEN/CLOSE to open the loading drawer.
- ② Press DISC SKIP to rotate the disc tray and exchange the disc.
- ③ Press OPEN/CLOSE to close the loading drawer.

If you play a disc with the loading drawer open, the changer will stop when the last track on the current disc finishes playing.



■ To temporarily stop play

Press **PAUSE**.



This switches the changer to the pause mode, and the pause indicator illuminates. The disc rotates while the changer is in the pause mode.

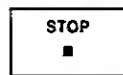


Pause indicator

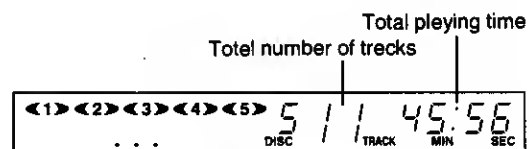
Press **PLAY** to resume play.

■ To stop play

Press **STOP**.



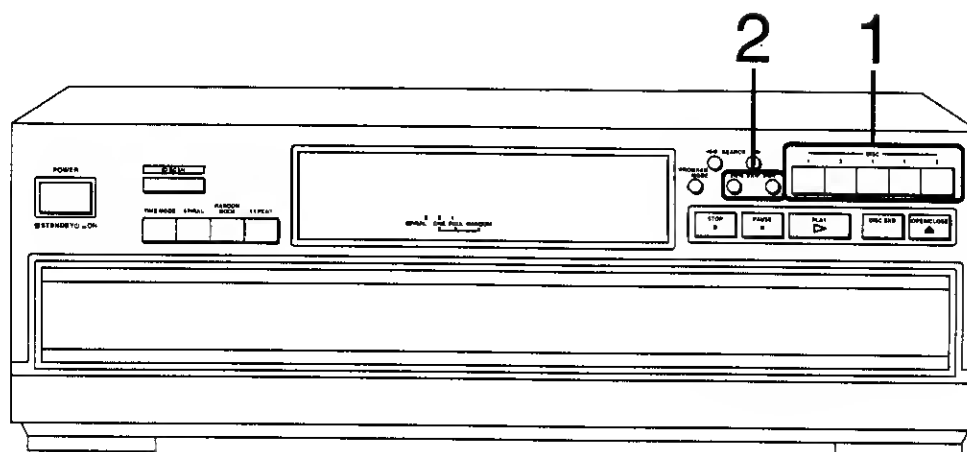
The disc will stop rotating, and the display will show the total number of tracks and the total playing time of the current disc.



The total playing time displayed includes the silent sections between tracks. For this reason, it may be a few seconds longer than the playing time indicated on the disc.

Direct Access Play


Direct access play involves starting play from a specific track on a specific disc end playing all discs on the five-disc tray in sequence.



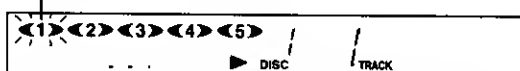
Before beginning, follow steps 1–4 of “Basic Operating Procedure” on page 7.

1 Press the desired disc button (1–5).

For example:

To select the disc 1, press the  button.

The selected disc indicator will flash.

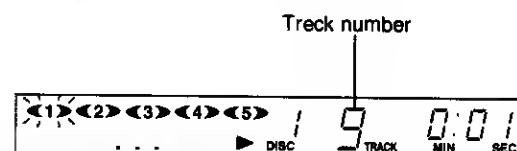



- If a disc only is selected, play will begin from its first track in about ten seconds.
- If a disc is not on the selected disc tray, the changer plays the disc at the next number.

2 Press SKIP to select the track number.

For example:

To select the 9th track, press  8 times.

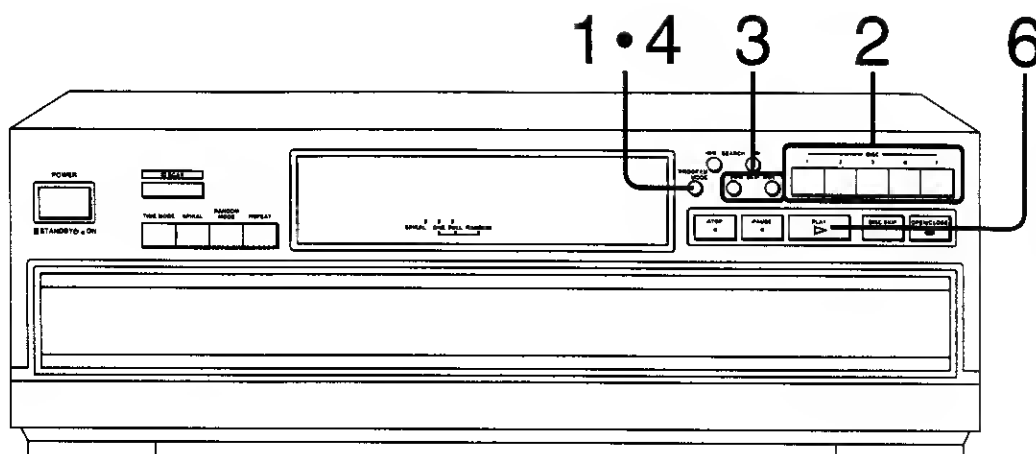


If you have passed the desired track, press  to return. Play will start from the selected track.

- The changer will stop automatically when the last track on the last disc finishes playing.
- If you play a disc with the loading drawer open, the changer will stop when the last track on the current disc finishes playing.

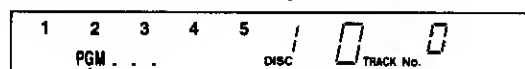
Program Play

You can program up to 32 selections from the five discs in any order as you desire.



Before beginning, follow steps 1-4 of "Basic Operating Procedure" on page 7.

- 1 In the stop mode, press PROGRAM MODE to illuminate the program play indicator.



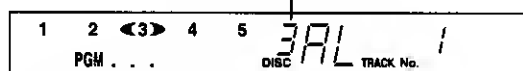
Program play indicator

- 2 Press the desired disc button (1-5).

For example:

To select disc 3, press the  button.

Specified disc number



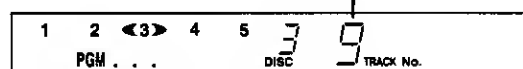
The AL indication shows that all the tracks on the disc are selected. Skip steps 3 and 4 if you want to enter only the disc number.

- 3 Press SKIP to select the track number.

For example:

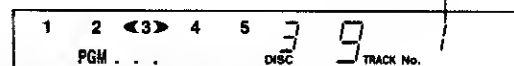
To select the 9th track, press  9 times.

Specified track number



- 4 Press PROGRAM MODE.

Program order



To enter the 9th track successively:

1. Press .
2. Press .
3. Press PROGRAM MODE at this time.

- 5 Repeat steps 2, 3 and 4 until you have completed the desired entry.

• If you enter non-existing disc(s) or track(s) soon after the loading drawer is closed or when it is open, the corresponding indicator illuminates and the entry is included in the count. In the play mode, the changer will cancel the non-existing entry and play the subsequent programmed disc or track.

• If you attempt a 33rd selection, the -F (full) indication will be displayed.

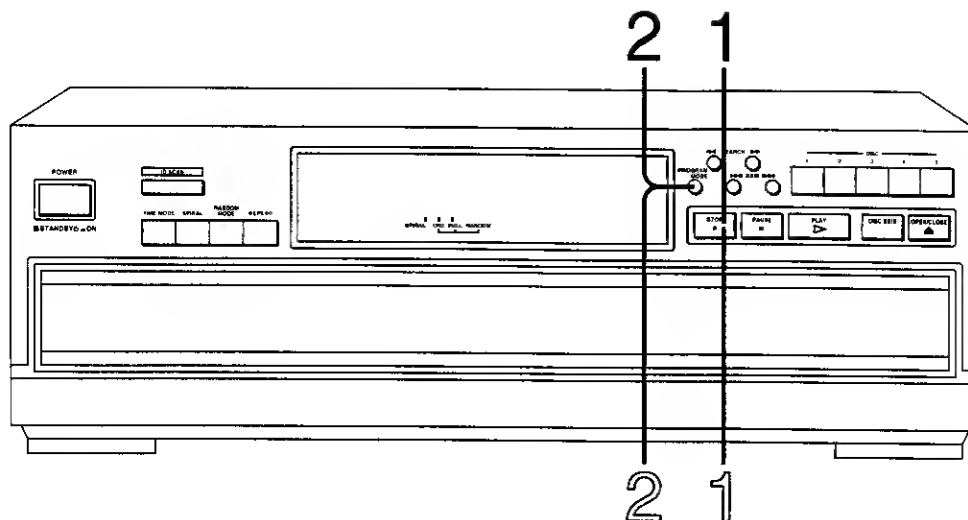
- 6 Press PLAY to start play.

To enter additional selections during play, repeat steps 2, 3 and 4.

Play the changer with the loading drawer closed.

While the loading drawer is open, if next programmed selection is in one of the other discs, the changer will stop after the current track finishes playing.

Program Play (continued)



To change to the other play mode keeping the programmed contents

- 1 Press **STOP** during play.
- 2 Press **PROGRAM MODE** twice.
The changer switches to sequential mode.
The program mode will be canceled but the changer still has the programmed contents in its memory.
- 3 Start the desired play (except delete play).

To resume program mode, press **PROGRAM MODE** in the stop mode to illuminate the program indicator.

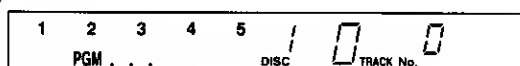
To clear the entire programmed contents without canceling program mode

Press **STOP** in the program mode.

STOP

Press once in the stop mode or twice during play.
This clears all programmed contents from memory.

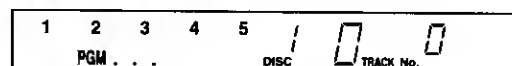
The display will indicate as below.



To cancel program mode

In this case, all programmed contents will also be cleared from memory.

- 1 Press **STOP** in the program mode.
Press once in the stop mode or twice during play.
The display will indicate as below.

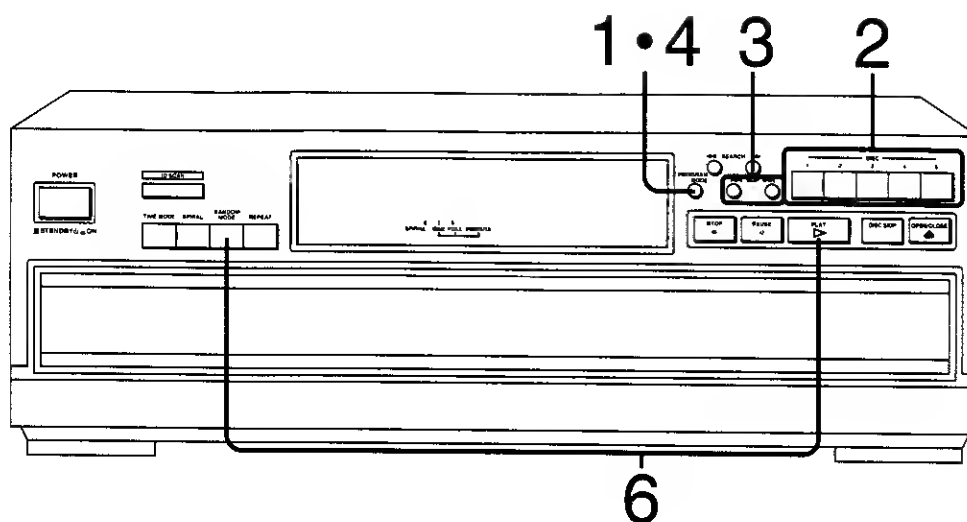


- 2 Press **PROGRAM MODE** twice.
The changer switches to sequential mode.

Turning the power to **STANDBY** will also cancel program mode.

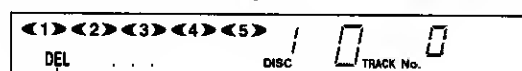
Delete Play

You can select up to 32 selections that you do not want to hear and put them in the changer's memory. Then you can enjoy sequential, one disc random, or full random play of only your favorite tracks.



Before beginning, follow steps 1–4 of “Basic Operating Procedure” on page 7.

- 1 In the stop mode, press PROGRAM MODE to illuminate the delete play indicator.



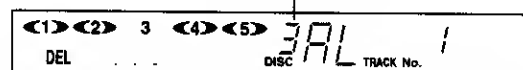
Delete play indicator

- 2 Press the disc button (1–5).

For example:

To delete disc 3, press the  button.

Specified disc number



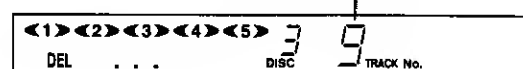
The *AL* indication shows that all the tracks on the disc are selected. Skip steps 3 and 4 if you want to delete all the tracks on the disc.

- 3 Press SKIP to select the track number.

For example:

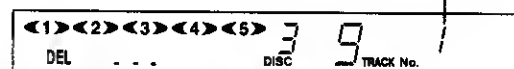
To delete the 9th track, press  9 times.

Specified track number



- 4 Press PROGRAM MODE.

Order you have entered



- 5 Repeat steps 2, 3 and 4 until you have completed the desired entry.

- If you enter non-existing disc(s) or track(s) soon after the loading drawer is closed or when it is open, the corresponding indicator illuminates and the entry is included in the count. In the play mode, the changer will cancel the non-existing entry.
- If you attempt a 33rd selection, the *-F* (full) indication will be displayed.

- 6 Press to start play.

To activate sequential play, press PLAY.

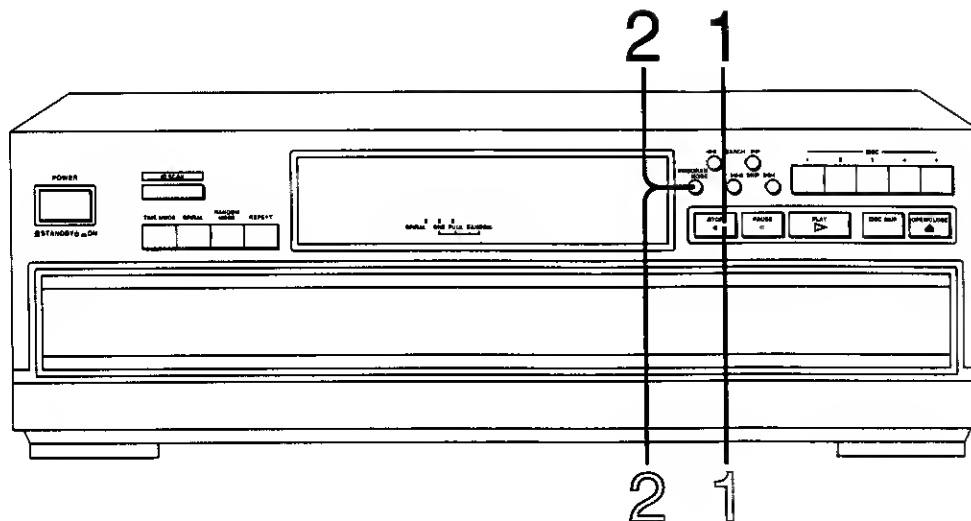
To activate one disc random play, press RANDOM MODE.

To activate full random play, press RANDOM MODE twice.

To enter additional selections to be deleted during play, repeat steps 2, 3 and 4.

If you play a disc with the loading drawer open, the changer will stop when the last track on the current disc finishes playing.

Delete Play (continued)



To change to the other play mode keeping the contents to be deleted

- 1 Press STOP during play.
- 2 Press PROGRAM MODE.
The changer switches to sequential mode.
The delete mode will be canceled but the changer still has the contents to be deleted in its memory.

- 3 Start the desired play (except program play).

To resume delete mode, press PROGRAM MODE twice in the stop mode to illuminate the delete indicator.

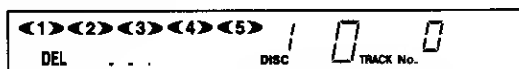
To clear the entire contents to be deleted without canceling delete mode

Press STOP in the delete mode.

STOP

Press once in the stop mode or twice during play.
This clears all the contents to be deleted from memory.

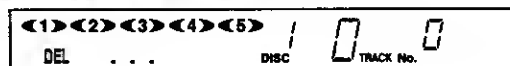
The display will indicate as below.



To cancel delete mode

In this case, all the contents to be deleted will also be cleared from memory.

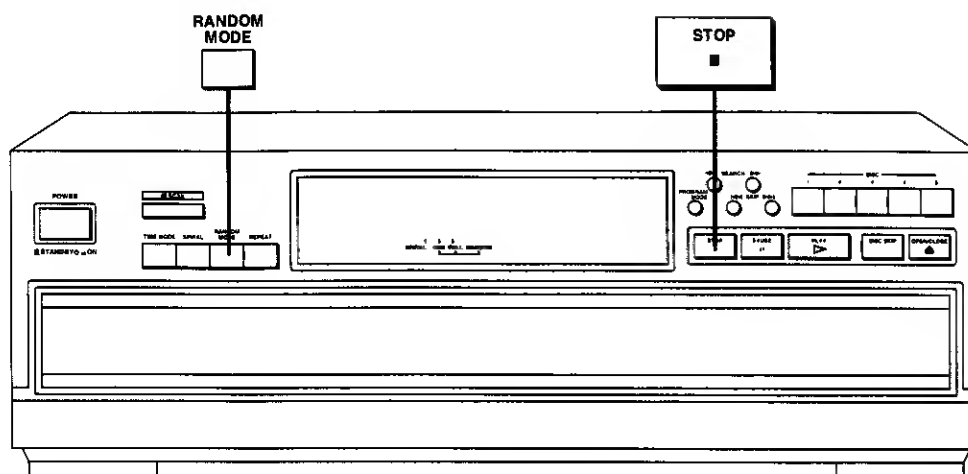
- 1 Press STOP in the delete mode.
Press once in the stop mode or twice during play.
The display will indicate as below.



- 2 Press PROGRAM MODE.
The changer switches to sequential mode.

Turning the power to STANDBY will also cancel delete mode.

Random Play

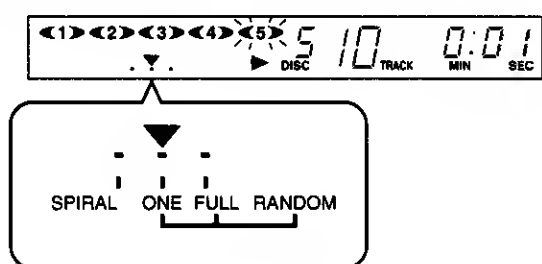


One disc random play

The changer will play all tracks on the current disc in a random order. Then it will choose a new disc randomly, excluding the discs already played, and play all tracks in a random order.

Before beginning, follow steps 1–4 of "Basic Operating Procedure" on page 7.

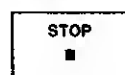
Press RANDOM MODE so that the play mode indicator points to ONE.



- In delete play mode, the changer will choose a disc and track excluding the selections to be deleted.
- The changer will stop automatically when all tracks on all discs have played once.
- Play the changer with the loading drawer closed. While the loading drawer is open, the changer will stop after the current disc finishes playing.

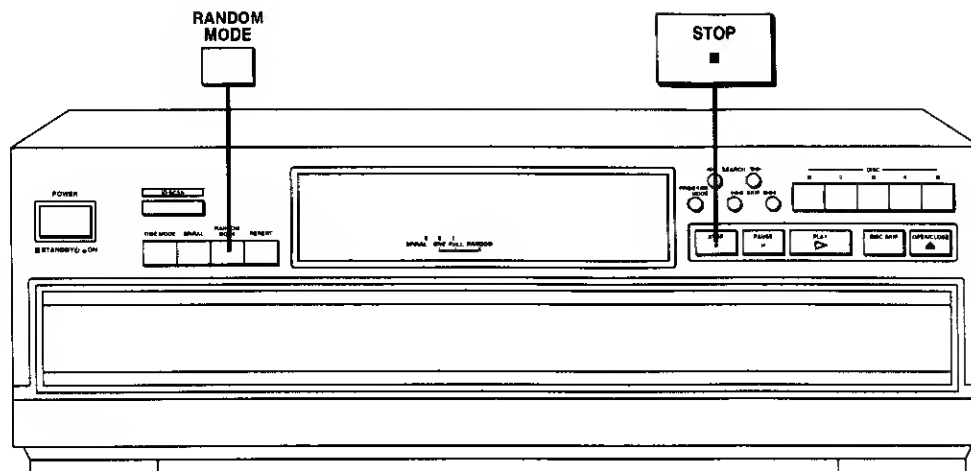
■ To cancel one disc random play mode

Press STOP.



The ONE play mode indicator will go out. The changer will change to stop mode.

Random Play (continued)

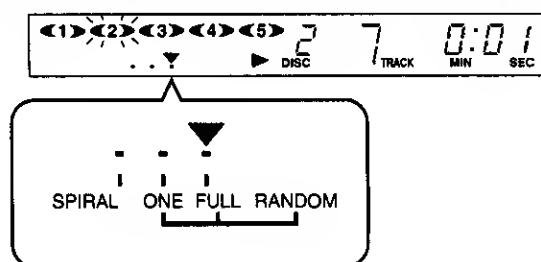


Full random play

The changer will randomly choose a track within a randomly selected disc. Once the changer has played the selected track, it will choose a disc then a track randomly again, excluding the tracks already played.

Before beginning, follow steps 1–4 of “Basic Operating Procedure” on page 7.

Press RANDOM MODE so that the play mode indicator points to FULL.



- In delete play mode, the changer will choose a disc and track excluding the selections to be deleted.
- The changer will stop automatically when all tracks on all discs have played once.
- Play the changer with the loading drawer closed. While the loading drawer is open, if next track is in one of the other discs, the changer will stop after the current track finishes playing.

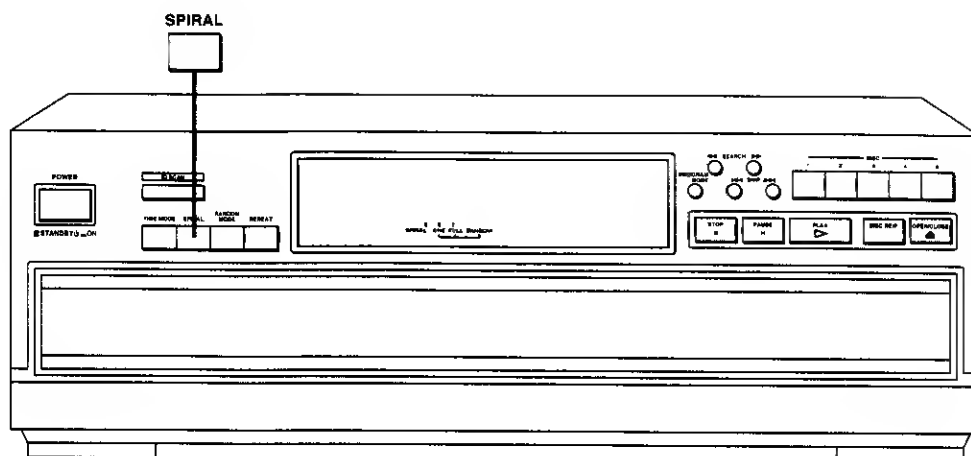
■ To cancel full random play mode

Press STOP.

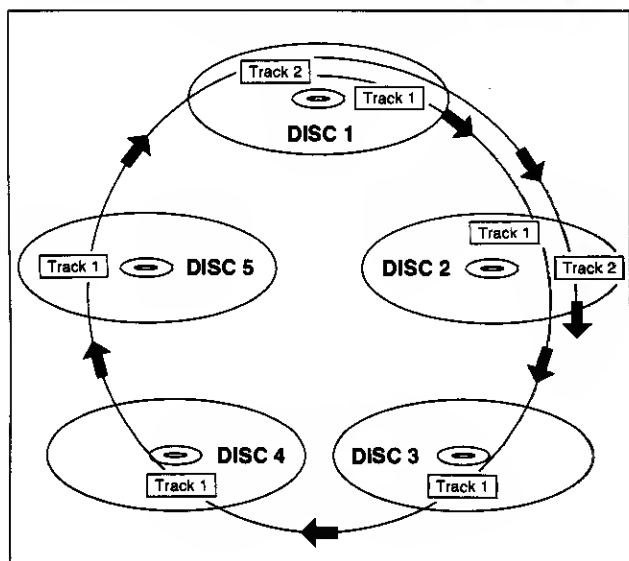


The FULL play mode indicator will go out. The changer will change to stop mode.

Spiral Play



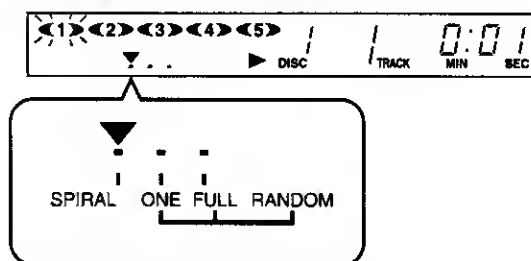
The changer plays the first tracks on all the loaded discs in sequence, followed by the second tracks on all the discs, and so on.



Before beginning, follow steps 1–4 of "Basic Operating Procedure" on page 7.

Press SPIRAL.

The play mode indicator points to SPIRAL and spiral play will begin with the first track on the disc at the playing position.



- When the disc with less number of tracks finishes playing, that disc will be skipped and the changer will continue playing with the other discs having the tracks not played yet.
- The changer will stop automatically when all tracks on all discs have played once.
- Play the changer with the loading drawer closed. While the loading drawer is open, the changer will stop after the current track finishes playing.

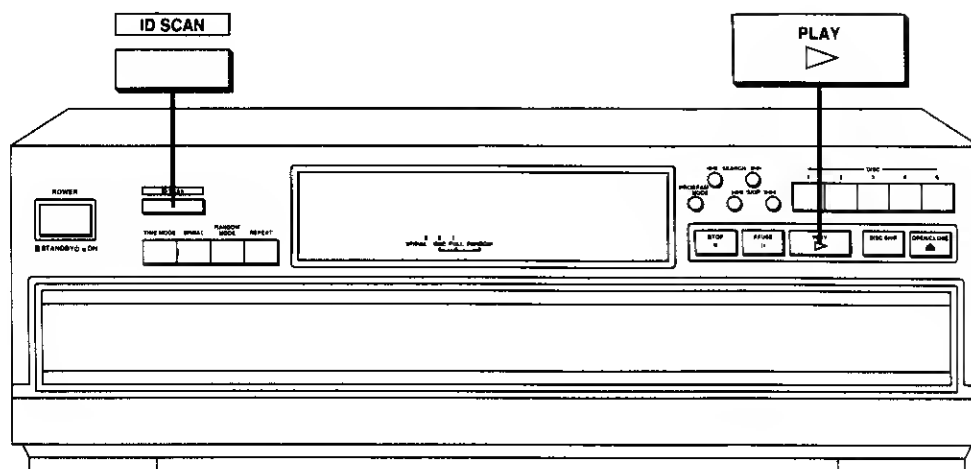
■ To cancel spiral play mode

Press SPIRAL again.

The SPIRAL play mode indicator will go out. The changer will return to sequential play mode from the current track on the current disc which is playing.



Special Features

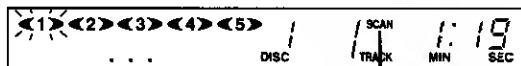


ID scan function

This function is convenient when searching for a desired track. The function will search from the beginning of the track for a loud section, and will play 10 seconds of the track centering around that point. The order of scanning is the same as for play mode.

Press ID SCAN.

The ID scan indicator will illuminate and ID scan will begin.



ID scan indicator

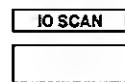
When the desired track has been found:

Press PLAY.

The track will then be played back from the beginning.

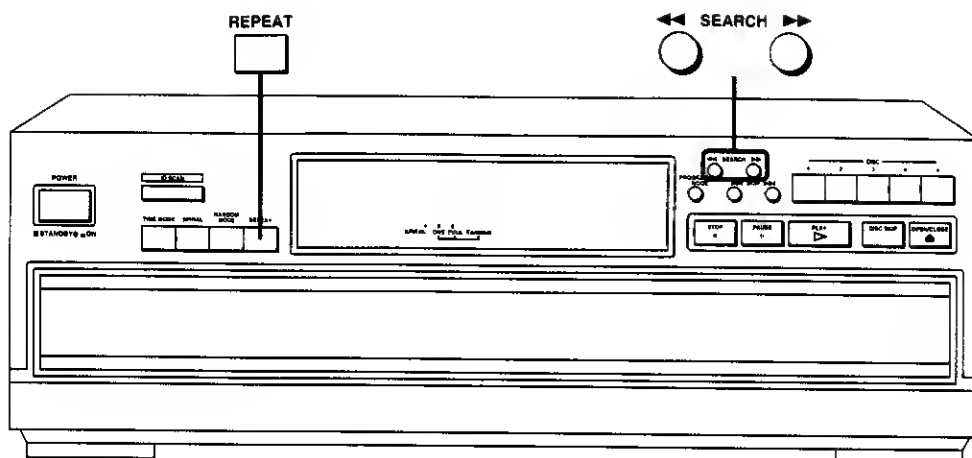
■ To cancel ID scan

Press ID SCAN while this function is in operation.



The ID scan indicator will go out.

The changer will continue to play from the current track on the current disc which has been playing.

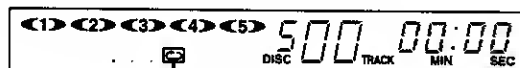


Repeat function

You can use this function in any play mode.

Press REPEAT before or during play.

The repeat indicator will illuminate.



Repeat indicator

•In sequential play mode:

All tracks of all discs will be played continuously.

•In program play mode:

The changer plays only the programmed selections in the programmed sequence repeatedly.

•In delete play mode:

The changer plays the discs and tracks excluding the selections to be deleted repeatedly.

•In random play mode:

When the changer has played all the tracks on all the loaded discs, it will select a new random sequence and play continuously. The sequence differs each time.

•In spiral play mode:

The changer plays all tracks of all discs repeatedly in the sequence of spiral play.

■ To cancel repeat function

Press REPEAT again.

The repeat indicator will go out.

REPEAT



Search function

You can search rapidly forward or backward on the disc for specific sections.

In the play or pause mode, press and hold ◀◀ or ▶▶.

Release the button when you reach desired point.

▶▶: You can search forward.

◀◀: You can search backward.

•The changer moves slowly at first and then rapidly if the button is held down for more than about three seconds.

•In the play mode, the sound level decreases by 12 dB (1/4).

•In the pause mode, no sound is heard. It remains at the point where ◀◀ or ▶▶ is released.

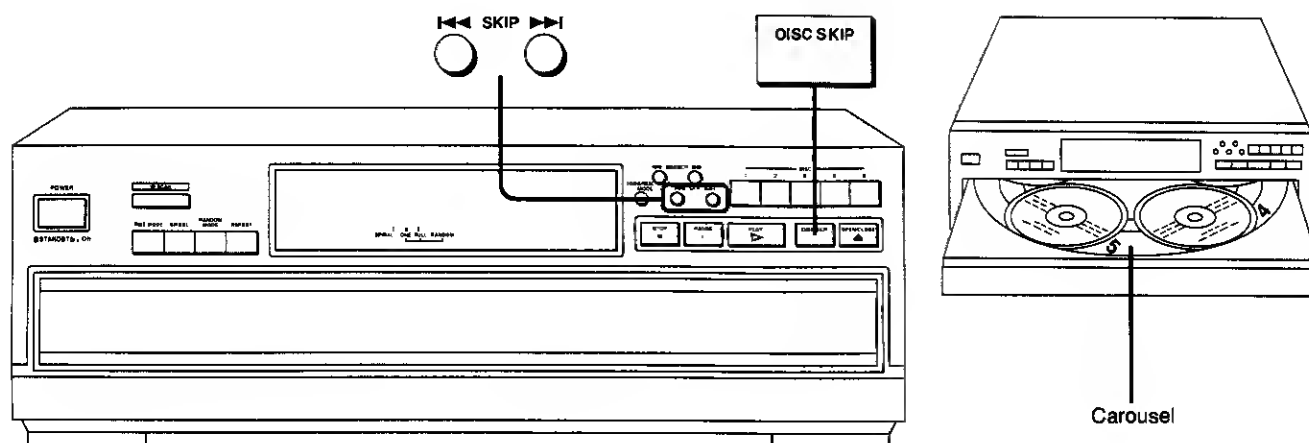
•In sequential play mode:

You can search forward over discs and backward within the current disc.

•In other play modes:

You can search forward or backward only within the current track.

Special Features (continued)

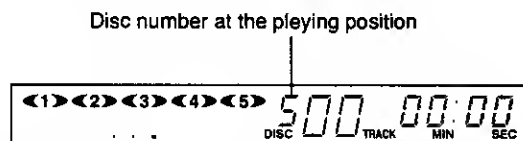


Skip function

■ To skip discs

You can use this function in the stop mode, sequential play, delete play and one disc random play mode.

Press DISC SKIP to rotate the disc tray.



● In the stop mode:

When the loading drawer is closed, pressing DISC SKIP changes the disc tray to the next one.

When the loading drawer is open, pressing DISC SKIP moves the carousel by two disc trays.

● In the play mode:

When the loading drawer is closed, pressing DISC SKIP changes the disc tray to the next one and the changer continues to play.

When the loading drawer is open, pressing DISC SKIP moves the disc tray to the next one. Pressing again moves the carousel in the opposite direction so that you can change all discs except the one being played.

■ To skip tracks

Press either SKIP (▶▶| or |◀◀) until you reach the desired track.

▶▶|: You can skip forward.

|◀◀: You can skip backward.

● In sequential/program/delete play mode:

In sequential play mode, you can skip only within the current disc.

In program play mode, you can skip from one track to another in the programmed sequence.

In delete play mode, you can skip tracks only within the current disc excluding the tracks to be deleted.

▶▶|: You can skip as many tracks as the number of times you press the button.

|◀◀: You can skip to the beginning of the track being played. If you press this button again quickly, you can skip to the beginning of the previous track.

Remember that in a backward skip, the current track is included in the count.

● In random play mode:

▶▶|: You can skip to the beginning of the next track in random manner.

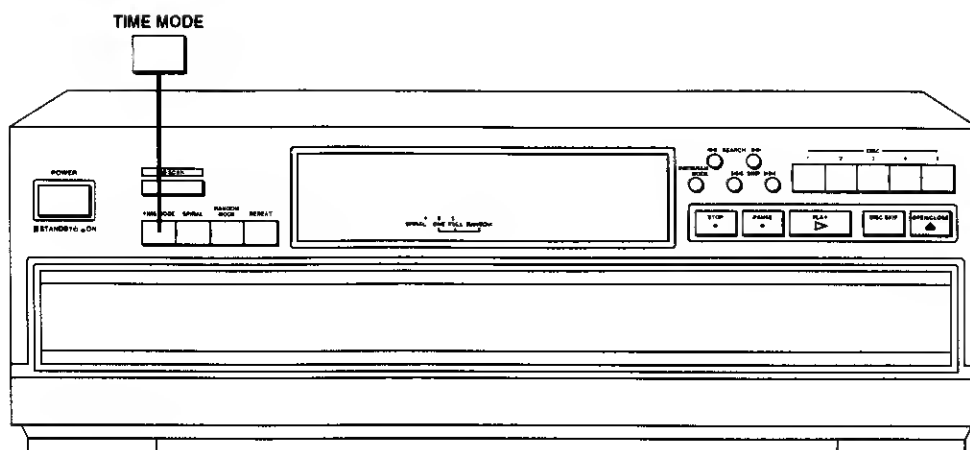
|◀◀: You can skip to the beginning of the current track.

● In spiral play mode:

▶▶|: You can skip to the beginning of a track on next disc.

|◀◀: You can skip to the beginning of the current track.

You can also skip tracks when the changer is in the pause or stop mode.



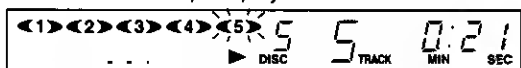
Time mode selection

Press TIME MODE in the play or pause mode.

The information will change (as described below) each time you press the button.

In the following example, the 5th disc, is playing at a point 0 min. and 21 sec. after the beginning of track 5.

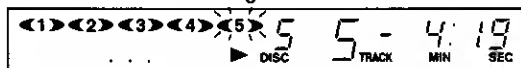
1. Track number and elapsed play time of the current track



2. Total remaining time on the disc



3. Track number and remaining time of the current track



4. Total elapsed play time of the current disc



• In all play modes:

When track number 21 or greater is playing, display 3 shows "_____".

• In program/delete/random/spiral modes:

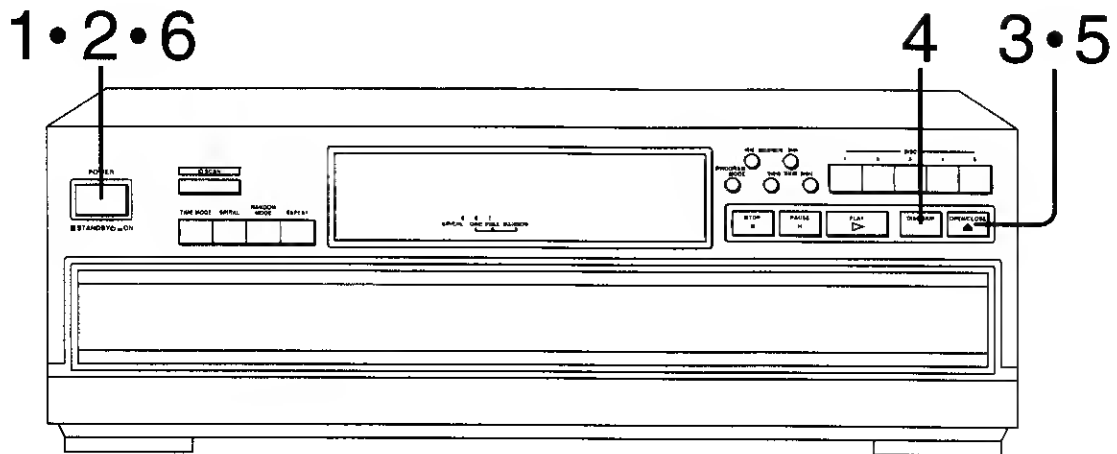
The displayed information will alternate between displays 1 and 3 each time the button is pressed.

When you stop playing and play again, the display will return to display 1.

Before Moving

CAUTION:

Before moving this changer to another location, be sure that no discs were left in the changer and that the power was not switched to the standby condition while in the play mode. Failure to do so will expose the compact discs and the changer to the risk of severe damage.



- 1 Press POWER to switch to the standby condition.**
- 2 Press POWER to switch on the power.**
- 3 Press OPEN/CLOSE to open the loading drawer.**
- 4 Press DISC SKIP to rotate the disc trays and remove the discs from all disc trays.**
- 5 Press OPEN/CLOSE to close the loading drawer.**
- 6 Press POWER to switch to the standby condition.**

If you have pressed a wrong button by mistake, return to step 1.

The optical pickup will be automatically released when using the changer again.

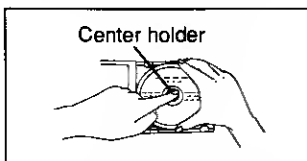
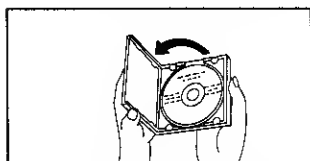
Concerning Compact Discs

With this changer, you can only play compact discs having this mark:

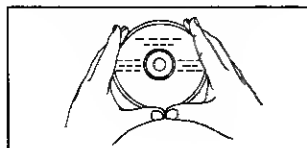
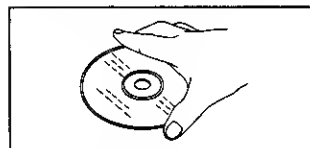


Handling precautions

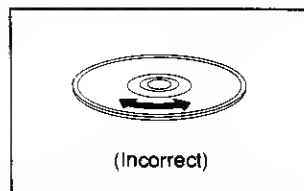
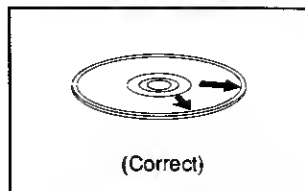
- To open the compact disc case, gently press the sides of the top, holding the top at both sides and pull up.
- To remove the disc from the case, press the center holder and lift the disc, holding by the edges.



- To return the disc to the case, insert the disc with label facing up and press downward at the center.
- Hold compact discs by the edges so you will not soil the surface with fingerprints. Fingerprints, dirt, and scratches can cause skipping and distortion.



- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids, or any other solvent on discs.
- If the surface is soiled, wipe gently with a soft, damp (water only) cloth.
- Always move the cloth directly outward from the center of the disc, not in a circular motion as with standard phonograph records.



- If you are taking the disc from a cold to a warm environment, moisture may form on the disc. Wipe this off with a soft, dry, lint-free cloth before using the disc.
- Do not write on the label side with a ball-point pen or other writing instrument.

Storage precautions

- Be sure to store discs in their cases to protect them from dust, scratches, and warping.
- Do not place or store discs in the following places:
 - 1) Locations exposed to direct sunlight.
 - 2) Humid or dusty locations.
 - 3) Locations directly exposed to a heat vent or heating appliance.
 - 4) In the glove compartment or rear deck of an automobile.

Maintenance

To clean this unit, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or weak detergent solution. Wring the cloth well before wiping the unit. Wipe once again with a soft, dry cloth.

Never use alcohol, paint thinner, benzene, nor a chemically treated cloth to clean this unit. Such chemicals may damage the finish of your unit.

Technical Specifications

■ Audio

No. of channels	2 (left and right, stereo)
Frequency response	2–20,000 Hz, ± 1 dB
Output voltage	2 V (at 0 dB)
Dynamic range	92 dB
S/N	100 dB
Total harmonic distortion	0.007% (1 kHz, 0 dB)
Wow and flutter	Below measurable limit
DA converter	MASH (1 bit)
Output impedance	Approx. 1 k Ω
Load impedance	More than 10 k Ω

■ Pickup

Wavelength	780 nm
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■ General

Power consumption	15 W
Power supply	AC 50/60 Hz, 230–240 V
Dimensions (W×H×D)	360×128×407 mm
Weight	4.5 kg

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

MASH is a trademark of NTT.

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
Changer will not play.	The disc(s) or other foreign object(s) has fallen inside of the changer.	●Open the loading drawer then remove the object.
	Moisture has condensed in the changer.	●Switch ON and allow the changer to dry out for about one hour before using the changer.
The disc in the changer does not play.	The disc is upside down.	●Be sure the label is facing upward.
	The disc is dirty.	●Wipe the disc with a soft cloth.
	The disc is scratched.	●Replace the disc with a new disc.
	The disc is warped.	
	The disc is not within specified standards.	
A certain music passage won't play correctly.	The disc is dirty.	●Wipe the disc with a soft cloth.
	The disc is scratched.	●Replace the disc with a new one.
There is noise from the tuner or disturbance on the TV screen.	Caused by high-frequency signals of this changer.	●Use the changer farther away from the tuner or TV. ●If the tuner's or TV's antenna is the indoor type, use an outdoor one.
When program play is started, an error message (-E) appears on the display.	Playback was started without a track being programmed.	●Program a track.
An error message (-E) appears on the display, and the changer stops operating.	The mechanism of the changer has been improperly adjusted.	●Turn the power switch to STANDBY and then back ON again. However, if the loading drawer is fully open, take out the compact disc(s) at the front position and then turn the power switch to STANDBY and then back ON again.
The loading drawer stops in the middle of opening.		

About moisture

Moisture may form on the lens in the following cases...

- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

If moisture forms inside this unit, it may not work properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

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